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LINEAR OSCILLATION TYPE EQUIPMENT FOR FRICTION WELDING

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PROBLEM TO BE SOLVED: To provide linear oscillation type equipment for friction welding which is miniaturized and portable, and accommodating to a variety of works to be welded and welding conditions.

SOLUTION: The linear oscillation type equipment for friction welding in which a member A to be welded clamped by a holder on the non-oscillation side and a member B to be welded clamped by a holder on the oscillation side are friction-welded, is composed of a slide frame which supports an oscillate member provided with a oscillate side holder in a manner that the oscillate frame is reciprocally movable in the horizontal direction, a pressurizing stand which guides to allow the slide frame vertically move and is provided with a pressurizing cylinder at upper part and a non-oscillate side holder at lower part, a vibration excitation mechanism which oscillates the oscillate member in the horizontal direction by a rotating motor for vibration excitation and an eccentric cam, and a linear bearing between the slide frame and the oscillate member. The oscillate member is pressurized downward by the pressurizing cylinder via the slide frame and the linear bearing, thus the member B to be welded and the member A to be welded are pressurized.

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